

# **Federal Emergency Management Agency Environmental Assessment**

## **South Monmouth Regional Sewerage Authority Pump Station Facility Relocation**

### **APPENDICES TABLE OF CONTENTS**

#### **APPENDIX A: MAPS AND FIGURES**

Appendix A has five figures total, which includes one map, two site design plans, and two building rendering plans.

Figure 1, the Project Location Map, is a geographic representation on a map of the proposed site location of the Lake Como Pump Station at 1800 Parkway in Lake Como, Monmouth County, New Jersey in relation to its existing site at 501 North Boulevard in Lake Como, Monmouth County, New Jersey.

Figure 2, the Site Grading Plan, shows the topography of the given site, including contours and grade elevations for the proposed ground surface elevations.

Figure 3, the Site Landscape Plan, shows the proposed location, number, size, species, landscape elements, and open space of the site. It includes twenty Compact Inkberry Holly plants, three Ivory Silk Tree Lilac plants, two Mountbatten Juniper plants, five Endless Summer Hydrangea plants, and sixteen Mountbatten Juniper plants.

Figure 4, the Building Rendering Front, shows the proposed front view of the pump station building. It shows where the stairs to the front doorway are proposed to be located.

Figure 5, the Building Rendering Side, shows the proposed side views of the pump station building. From the West (Parkway), it shows the building plan with the generator exhaust chimney. It also shows the building plan from the East (Shamrock Pub) side.

#### **APPENDIX B: EXECUTIVE ORDER 11988-11990 FLOODPLAIN MANAGEMENT AND WETLANDS PROTECTION EIGHT-STEP DECISION-MAKING PROCESS**

Appendix B has two items total, which includes one 8-Step Summary and one Flood Insurance Rate Map.

Executive Order 11988 (Floodplain Management) and Executive Order 11990 (Protection of Wetlands) require Federal agencies “to avoid to the extent possible the long and short term adverse impacts associated with the occupancy and modification of the floodplains/wetlands and to avoid direct or indirect support of floodplains/wetland development wherever there is a practicable alternative.” FEMA’s implementing regulations are contained in 44 CFR Part 9, which includes an Eight-Step Decision Making Process for compliance with this part.

This Eight-Step Decision Making Process is applied to the proposed relocation of the Lake Como Pump Station.

## **EIGHT STEP DECISION-MAKING PROCESS SUMMARY**

In compliance with FEMA regulations, 44 CFR Part 9, implementing Executive Order (EO) 11988 Floodplain Management and EO 11990 Wetlands Protection an eight-step decision-making process is used for actions that are proposed in floodplains and wetlands.

### **Step 1 Determine whether the Proposed Action is located in (or adjacent to and affecting or affected by) a floodplain or wetland.**

The existing Pump Station (501 North Boulevard in Lake Como, Monmouth County, New Jersey; GPS 40.16922, -74.02276) is located within the 100-year floodplain, also known as the Special Flood Hazard Area. The existing site has a Base Flood Elevation (BFE) of 11 feet NAVD88 as indicated on best available floodplain elevation maps available at [www.region2coastal.com/sandy/abfe](http://www.region2coastal.com/sandy/abfe). The 500-year floodplain elevation in vicinity to the proposed site has an elevation of approximately 12 feet NAVD88.

The proposed site (1800 Parkway in Lake Como, Monmouth County, New Jersey; GPS 40.17146, -74.02339) is not located in a 500-year floodplain or a Flood Zone, as depicted in FEMA's Preliminary Flood Map Number 34025C, effective date June 17, 2013 (*included in this Appendix*) and FEMA's Flood Insurance Rate Map Community Map Number 34025C0342F, effective date September 25, 2009 (*included in this Appendix*).

The proposed action is not located in or adjacent to a wetland per review of the National Wetland Inventory mapping and based on site evaluation. The proposed scope of work would not affect wetlands, thus no further wetland analysis is required.

### **Step 2 Notify the public of proposed floodplain actions and give opportunity to participate in the decision-making process.**

A cumulative public notice for the disaster was published in the *Asbury Park Press* newspaper on November 26, 2012. As indicated in the notice, "This public notice concerns those projects and activities that may affect historic properties, or those actions and activities that are located in or affect wetland areas, the 100-year floodplain, and/or critical actions within the 500-year floodplain. Such projects and activities may adversely affect the historic property, floodplain, or wetland, or may result in continuing vulnerability to damage by flooding.

Presidential Executive Orders 11988 and 11990 require that all federal actions in, or affecting, the base floodplain or wetland areas be reviewed for opportunities to relocate, and evaluated for social, economic, historical, environmental, legal, and safety considerations." In addition, a project specific notice integrated with the Notice of Availability of the NEPA Environmental Assessment will be published in the *Asbury Park Press*. The public notice will invite comments within 15 days of the publication date of the notice.

### **Step 3 Identify and evaluate practicable alternatives to locating a project in the floodplain, including alternative sites outside of the floodplain.**

According to 44 CFR Part 9.9 (b), alternatives considered to carrying out the Proposed Action outside of the floodplain include: The No Action Alternative, the Proposed Action Alternative-Facility Relocation, and Alternative 2-Facility Replacement and Elevation.

The No Action Alternative would promote continued floodplain occupancy and future risk of not only additional flood damage to the facility itself, but disruption of service that can be detrimental to the public and also the environment. The site's accessibility has been compromised in past flooding events, as well as Hurricane Sandy, thus adversely impacting operations. The repair of the facility, without elevation or floodproofing, may not fully address requirements in accordance with the National Flood Insurance Program.

The Proposed Action Alternative, facility relocation, is a practicable alternative to relocate the facility outside the 500-year floodplain. The facility would be located on higher ground with first floor elevation constructed at approximately 14 feet NAVD88. Equipment would be elevated to approximately 16.5 feet NAVD88. The proposed relocation not only minimizes risk of future flood damage to the facility itself, but also improves operational capabilities to have facility access outside the 500-year floodplain. The proposed action would have a beneficial impact on floodplain habitat and function, as the existing facility would be demolished and removed as a structure in the floodplain and as source of potential pollution. The area would be returned to open space for enhancement of lakeside habitat and recreational space.

Alternative 2, facility replacement and elevation, would promote continued floodplain occupancy and future risk of not only additional flood damage to the facility itself, but disruption of service that can be detrimental to the public and also the environment. The site's accessibility has been compromised in past flooding events, as well as Hurricane Sandy, thus adversely impacting operations. Elevation or floodproofing of the replacement facility at the original site to at/above the 500-year floodplain elevation plus one foot elevation would help minimize risk of future flood damage to the facility, but would not be as risk averse as the Proposed Action Alternative. The alternative would not fulfill full operational needs of the project.

**Step 4 Identify impacts associated with occupancy and modification of floodplains and support of floodplain development that could result from the Proposed Action.**

The proposed action is not in a 500-year floodplain and therefore not expected to cause an increase in the BFE (Base Flood Elevation) nor increase the flood hazard potential to other nearby infrastructure. The proposed action does not increase the capacity of the infrastructure and is not expected to encourage future development in the floodplain.

**Step 5 Develop impact minimization measures and ways to restore and preserve the floodplain.**

Relocation of pump station outside of the 500-year floodplain minimizes and avoids impacts to the floodplain. The proposed structure's lowest floor elevation is 14 feet or approximately 2 feet above the nearest 500-year floodplain base flood elevation.

**Step 6 Determine whether the proposed action is practicable and reevaluate alternatives.**

Pursuant to the discussion above, namely (1) that the proposed facility is outside of the 500-year floodplain, (2) that the existing site elevations for the area selected for the project are higher than

the nearest 500-year floodplain BFE, (3) that the proposed action will not increase the flood levels, thus will not disrupt floodplain values, and (4) that the project will improve the South Monmouth Regional Sewerage Authority's capability to provide sanitary sewer service to the residents of Lake Como, the proposed action seems practicable, and reevaluation of alternatives does not seem necessary. The practicable alternative is to construct the proposed project outside of the 500-year floodplain.

**Step 7 Provide the public with an explanation of any final decision that the floodplain action is the only practicable alternative.**

The Finding of No Significant Impact (FONSI) will provide final decision documentation and will and posting FEMA document library at [www.fema.gov/resource-document-library](http://www.fema.gov/resource-document-library).

**Step 8 Implement the Proposed Action following release of grant funding.**

Sub-grantee is responsible to obtain/maintain insurance to cover the proposed facility in accordance with the National Flood Insurance Program.

Sub-grantee is responsible for all applicable coordination with the local floodplain administrator, to consider building codes for design development, and to obtain applicable building permit(s).

Figure 2 is the proposed site location of the Lake Como Pump Station on a National Flood Insurance Program's (NFIP) flood insurance rate map or FIRM in relation to the 500-year floodplain. According to the FIRM (Community Panel Number 34025C0342F, effective date September 25, 2009), the proposed project site is located outside the 500-year floodplain.

Figure 3 is the proposed site location of the Lake Como Pump Station on FEMA's Preliminary Flood Map in relation to the 500-year floodplain. According to the Preliminary Flood Map (Panel Number 34025C, effective date June 17, 2013), the proposed project site is located outside the 500-year floodplain.

**APPENDIX C: COASTAL ZONE CONSISTENCY AND PERMIT CORRESPONDENCE**

Appendix C includes five documents including one Email, three letters, and one excerpt from a Coastal Area Facility Review Act (CAFRA) Application from the New Jersey Department of Environmental Protection related to coastal zone consistency and permitting.

Document 1 is a New Jersey Department of Environmental Protection Email to the Subgrantee for Emergency Permit Authorization. On February 15, 2013, the Subgrantee received an e-mail from the NJDEP issuing an approval for an Emergency Authorization for the work specified for the relocation of the pump station. The original NJDEP Emergency Authorization email noted the project's consistency with the New Jersey Coastal Zone Management Plan and also authorized the demolition of the residential structure that had previously existed at 1800 Parkway.

Document 2 is the Subgrantee Application Letter for a CAFRA Permit. An application for formal New Jersey Department of Environmental Protection approval for a CAFRA Permit for

Public Development, as found within the Coastal Permit Program Rules, was submitted for review and approval.

Document 3 is an excerpt from the CAFRA Application. The Application includes a Compliance Statement prepared to address the Waterfront Development Law found in the Rules on Coastal Zone Management. The application package is pending formal approval. This also includes a site location map, USGS Quad map, tax map, and soils map.

Document 4 is a New Jersey Department of Environmental Protection Letter to the Subgrantee regarding the CAFRA Application Process. The New Jersey Department of Environmental Protection reviewed the application and found it deficient in four ways. This letter explains these deficiencies and explains further requested materials.

Document 5 is a New Jersey Department of Environmental Protection Treatment Works Letter from the Bureau of Construction and Connection Permits to the Subgrantee. The letter includes a Treatment Works Approval issued to the Subgrantee pursuant to Title 58 of the Revised Statutes of New Jersey. The approval is valid for a period of two years from the issuance date and grants permission to construct and operate force main and a pump station to replace the existing Lake Como Pump Station and to be relocated at 1800 Parkway, Lot 1, Block 18, Borough of Lake Como, Monmouth County, NJ.

#### **APPENDIX D: CORRESPONDENCE**

Appendix D includes three letters of correspondence and documentation related to environmental and historic preservation review for proposed relocation of the Lake Como Pump Station.

Letter 1 is the State Historic Preservation Office correspondence with CME Associates, dated March 27, 2013, concurring that there were no historic properties located within the proposed project area and that no historic properties would be affected within the project's area of potential effects.

Letter 2 is the Interested Parties Letter, dated August 19, 2013, notifying interested groups of the proposed scope of work, the undertaking of an Environmental Assessment, and requesting those with a demonstrated interest in archaeology and historic preservation to review and submit comments regarding potential impacts.

Letter 3 is the Tribal Informational Letter, dated August 19, 2013, apprising interested Tribes of the project's proposed scope of work and determination of effects. The letter requests the Tribe notify FEMA if they are aware of any significant prehistoric/historic archaeological resources which are within the project area or may be affected by the project, if there are any additional resources which should be looked at, and if there are any other parties that should be consulted.

The Tribal Informational Letters: Sent / Delivered / Response document is a list of the Tribes the Tribal Information Letter was sent to, the date each letter was sent / delivered, and if a response was received from the addressee.

Letter 4 is the Delaware Tribe of Indians correspondence to the Federal Emergency Management Agency, dated August 23, 2013, stating there are no religious or culturally significant sites in the project area, and requesting notification and work stoppage if any human remains are accidentally uncovered.

Letter 5 is the State Historic Preservation Office correspondence with the Federal Emergency Management Agency, dated August 26, 2013, concurring that there were no historic properties affected within the project's area of potential effects.

The Interested Parties Letters: Sent / Response document is a list of the Interested Parties that were contacted, the date the letter was sent, and if a response was received from the addressee.

Letter 6 is the New Jersey Department of Environmental Protection Division of Water Quality, Municipal Finance and Construction Element Environmental Review Section Letter to Subgrantee regarding Level 1 Environmental Review for New Jersey Environmental Infrastructure Financing Program. The proposed project is expected to receive funding through the New Jersey Environmental Infrastructure Financing Program. The letter states that based on the Level 1 environmental review, the Department has made a decision to approve the planning information for the proposed action.

If you require additional information regarding any of the listed documentation, please Email: [FEMA4086Comment@fema.dhs.gov](mailto:FEMA4086Comment@fema.dhs.gov) or mail FEMA, Office of Environmental Planning and Historic Preservation, 307 Middletown Lincroft Road, Lincroft, NJ 07738.